# An Investigation of the Malaysian Palm Oil Industry's Environmental Strategies, Stakeholders' Pressure, Environmental Effectiveness and Competitive Advantage

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# **Declaration**

I hereby certify that the work embodied in this thesis is the result of the original research and has not been submitted for a higher degree to any other University or Institution.
(Signed)

# **Dedications**

To my late father (May Allah be Merciful upon Him)

Yaacob Bin Saman who inspired my pursuit of knowledge, and also to

my beloved mother for her continuous support and prayer for my success.

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#### **List of Acronyms**

ACCA Association of Chartered Certified Accountants

BCSC Business Council for Sustainable Development

BOD Biochemical Oxygen Demand

CAC Command and Control

DOE Department of Environment
BRIMAS Borneo Resources Institute

CAP Consumer's Association of Penang
CER Corporate Environmental Reporting

CPO Crude Palm Oil

DAFMS Department of Agriculture of the Federated Malay States

DG Director General

EFB Empty Fruit Bunches

EIA Environmental Impact Assessment
EMS Environmental Management System
EMT Ecological Modernisation Theory

ENGOs Environmental Non Governmental Organizations

EPSM Environment Protection Society of Malaysia

EQA Environmental Quality Act

FAO Food and Agriculture Organization

FDI Foreign Direct Investment

FELCRA Federal Land Consolidation and Rehabilitation Authority

FELDA Federal Land Development Authority

FFA Free Fatty Acid

FFB Fresh Fruit Bunches

FME Free Market Environmentalism

FMM Federation of Malaysian Manufacturers

FoE Friends of the Earth

FSC Forest Stewardship Council

GATT General Agreement on Tariffs and Trade

GDP Gross Domestic Product
GNP Gross National Product
GPF Green Project Facility

HCVF High Conservation Value Forest

IPM Integrated Pest Management

ISA Internal Security Act

KLSE Kuala Lumpur Stock Exchange

LCA Life Cycle Assessment

MBI Market Based Instrument

MENGOs Malaysian Environmental Non Governmental Organisations

MNCs Multi National Corporations
MNS Malaysian Nature Society

MPOA Malaysian Palm Oil Association

MPOB Malaysian Palm Oil Board
MPOI Malaysian Palm Oil Industry

MPOPC Malaysian Palm Oil Promotional Council
NAFTA North American Free Trade Agreement
NEPA National Environmental Protection Agency

NGOs Non Governmental Organisations

NCLs Native Customary Lands NEP New Economic Policy

NME Neo-classical Market Economy

NREB Natural Resources and Environment Board

OECD Organisation for Economic Co-operation and Development

POME Palm Oil Mill Effluent

PORIM Palm Oil Research Institute of Malaysia

PORLA Palm Oil Regulation and Licensing Authority

PPP Polluter Pays Principle

RISDA Rubber Industry Smallholders Development Authority

RSPO Roundtable on Sustainable Palm Oil

SAM Sahabat Alam Malaysia SD Sustainable Development

SMEs Small and Medium Enterprises
SRI Socially Responsible Investment

TQEM Total Quality Environmental Management

UNCED United Nation Conference on Economic Development and Environment

UNEP United Nations Environment Programme

WCED World Commission on Environment and Development

### WWF World Wide Fund for Nature

#### **Abstract**

Over the last three decades there has been increasing pressure from stakeholders on businesses to be environmentally responsible. Business organisations cannot help but take this consideration seriously because it has a far-reaching impact on their very survival. This research is intended to bring insights into how and why a business's management responds to environmental pressure from stakeholders. How a business responds to its stakeholders is known as environmental strategy. In addition, this study also investigates how proactiveness in implementation of each type of environmental strategy impacts on a business's environmental effectiveness and competitive advantage.

In Malaysia palm oil is the most important agricultural commodity in the country, and contributes substantially to the economy. Unfortunately, its activities are not without environmental costs. Deforestation, depletion of flora and fauna, excessive use of chemicals, air and water pollution are the results of the industry's activity. But due to stakeholders' pressures, the industry has embraced environmental management in its activities, albeit at a slow pace. Against this background, this study seeks to investigate the efficacy of corporate environmentalism, using a number of palm oil companies as case studies. This study is paramount as no such study has previously been conducted in Malaysia. The Malaysian palm oil industry offers an interesting case for studying corporate environmentalism in developing countries. Using a mixed-methods or triangulation of analysis of nine palm oil companies, which are listed on the Kuala Lumpur Stock Exchange, as case studies, this research investigates the environmental practices of the palm oil companies, and the relationship of these practices with stakeholders' pressures, environmental effectiveness and competitive advantages.

The results of the study reveal that three levels of overall environmental strategy are adopted by the participating palm oil companies. They are labelled by the researcher as *minimalists* - four companies; *intermediators* - two companies; and *proactivists* - three companies. The minimalists refer to companies that exercised the lowest environmental strategy, while the proactivists are those who exercised the highest environmental strategy. The intermediators are in the middle, that is, those companies that seem to be in the early stage of becoming proactivists, but have yet to achieve such a level. The proactivists were classified as those who exercised a proactive strategy, but both intermediators and minimalists exercised a reactive environmental strategy.

In terms of the relationship between environmental proactiveness and stakeholders' pressure it was found that the management of the more proactive companies tended to perceive a wider range of threats from environmental stakeholders compared with reactive companies. Apart from regulatory stakeholders, they also perceived pressure from primary stakeholders, especially their top management, as well as secondary stakeholders including ENGOs, competitors, and the media. On the contrary, reactive companies only perceived threats from regulatory stakeholders. Not only did proactivists differ in terms of stakeholders' pressure, they were at the same time perceived to be more environmentally effective and to gain more competitive advantages than less proactive companies. Based on the research findings it seems there is a significant positive correlation between a proactive environmental strategy and both environmental effectiveness and competitive advantage among Malaysian palm oil companies.

In this study measurement of the environmental strategies and environmental effectiveness was solely based on a triangulation of surveys (seven-point scale items) and in-depth interviews. In order to increase the validity of the study, future researchers need to triangulate these data with other quantitative data. For instance, at a company level, a company's resources can be measured based on its financial statistics such as sales, net profit, return on investment, and the amount spend on research and development. Moreover, the environmental effectiveness of a mill can be measured in terms of monthly data of biochemical oxygen demand (BOD), of palm oil mill effluents and Ringelmann Chart of air emissions, and the amount of money expended on desludging for certain periods of time. In both plantations and mills, future researchers can gather data related to environmental accidents, fines and court cases.

The key findings of this research are instructive. The majority of the participating palm oil companies in Malaysia adopted reactive environmental strategies. Only a few adopted proactive environmental strategies, and they were more likely to exercise environmental practices at strategic and tactical levels such as top management involvement in environmental issues as well as deploying environmental management systems which mostly related to the bottom line of their businesses. Serious attention towards the destruction of the tropical rainforest as a result of their activities is lacking among participating companies.